

Product datasheet for **RG218520**

PNMA5 (NM_001103150) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	PNMA5
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG218520 representing NM_001103150
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGGCACTGACACTGCTAGAGGATTGGTGCAAGGGGATGGACATGGACCCAGAAAGGCCCTGCTGATTG
TAGGCATCCCCATGGAGTGTAGTGAGGTGGAATTCAGGACACTGTGAAGGCAGGCTTACAGCCCTGTG
CGCATACAGGGTCCTAGGGAGAATGTTAGGAGGGAAGACAATGCCAAGGCAGTCTTCATTGAATGGCT
GACACTGTCAATTACACTACTCTGCCAGTCACATACCAGGAAAGGGTGGCTCTCGGGAAGTGGTGGTAA
AACCCCGTAACCCAGATGATGAGTTTCTCAGTAGACTGAATCTCTGAAAGATGAGGGCCGAAGTAT
GACAGATGTGGCCAGAGCCCTGGGATGTTGCAGCCTCCCTGCCGAGAGCCTGGATGCAGAGGTGATGCCC
CAAGTTAGATCCCCACCTTTAGAGCCTCCGAAAGAAAGTATGTGGTACAGGAAACTGAAAGTGTTCGCG
GAACTGCTTCCCTAGCCAGGCGAAGAGACCTTTGAAGACTGGCTAGAGCAGGTCACTGAGATAATGCC
CATATGGCAAGTGTCTGAGGTGGAGAAGAGGCGCGTTTGTGGAGAGCTTACGTGGCCTGCTCTGTCA
ATCATGCGGGTGCTCCAGGCCAACAATGACTCCATAACTGTGGAGCAGTGCCTTGACGCCCTAAAGCAGA
TCTTTGGGGATAAAGAGGACTTTAGAGCCTCTCAGTTTAGGTTTCTGCAGACCTCTCCGAAGATTGGAGA
GAAAGTCTCCACTTTCTGCTGCGCTTAGAGCCCTGCTGCAGAAAGCCGTGCACAAGAGCCCTTGTC
GTGCGCAGCACAGACATGATTGCTGTAACATCTCTAGCTCGGGTCGCCATGACCCCGCCCTCAGGG
GCAAGCTGGAGCTCTTGATCAGCGAGGGTGTCTCCCAATTTCTGGAGTTAATGAAGCTCATTCGAGA
TGAAGAAGAGTGGGAGAACACTGAGGCAGTGATGAAGAATAAGGAGAAGCCATCAGGGAGAGGCCGGGG
GCCTCCGCTAGACAGGCAAGAGCAGAAGCCAGTGTCTCTGCACCTCAGGCCACCGTGCAGGCAAGGTCTT
TTAGCGACAGCAGCCCCAGACCATACAGGGAGGCTTACCCCATTAGTGAACGCAGGCGGCTGTTAGG
CAGTGAAAGCACTAGGGGAGAAGACCATGCGCAGGCCAGTATCCCAAGGCTGAAAACCACTCCAGGC
AGGGAGGGGCCACAGGCTGCAGGAGAGGAGTTGGGAAACGAGGCAGGGGCTGGGGCCATGAGCCATCCCA
AGCCCTGGGAAACA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



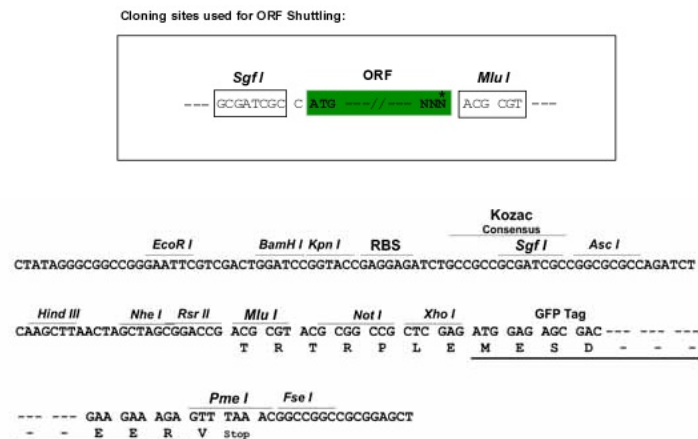
Protein Sequence: >RG218520 representing NM_001103150
Red=Cloning site Green=Tags(s)

MALTLLEDWCKGMDMPRKALLIVGIPMECSEVEIQDTVKAGLQPLCAYRVLGRMFRREDNAKAVFIELA
DTVNYTTLP SHIPGKGGSWEVVVKPRNPDDFLSRLNYFLKDEGRSMTDVARALGCCSLPAESLDAEVM
QVRSPLEPPKESMWRKLVFSGTASPSGEETFEDWLEQVTEIMPIWQVSEVEKRRRLLESIRGALS
IMRVLQANNDITVEQCLDALKQIFGDKEDFRASQFRFLQTSPIKEKYSTFLLRLEPLLQKAVHKSPLS
VRSTDMIRLKHLLARVAMTPALRGKLELLDQRCPPNFLELMKLIIRDEEWEENTEAVMKNKEKPSGRGRG
ASGRQARAEASVSAPQATVQARSFSDSSPQTIQGLPPLVKRRRLLGSESTRGEDHGQATYPKAENQTPG
REGPQAAGEELGNEAGAGAMSHPKPWET

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001103150

ORF Size: 1344 bp

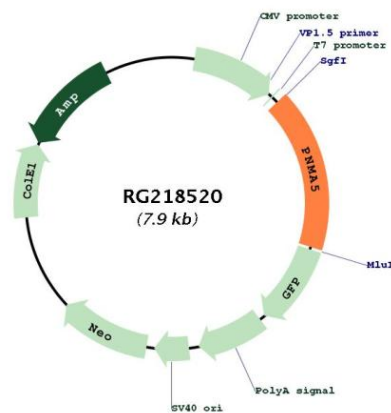
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:	1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_001103150.1, NP_001096620.1</u>
RefSeq Size:	3218 bp
RefSeq ORF:	1347 bp
Locus ID:	114824
UniProt ID:	<u>Q96PV4</u>
Cytogenetics:	Xq28
Gene Summary:	This gene encodes a member of the paraneoplastic Ma antigen protein family. These proteins have been implicated in the development of paraneoplastic disorders resulting from an immune response directed against them. Paraneoplastic disorders are the result of an abnormal immune response to a tumor. Multiple alternatively spliced variants, encoding the same protein, have been identified. [provided by RefSeq, Oct 2011]

Product images:



Circular map for RG218520